

ABSTRACT

1 A flexible mesoscopic heat exchanger is provided by the invention.
2 The heat exchanger of the invention includes uniform microchannels for fluid
3 flow. Separate header and channel layers include microchannels for fluid flow
4 and heat exchange. A layered structure with channels aligned in multiple
5 orientations in the layers permits the use of a flexible material without channel
6 sagging and provides uniform flows. In a preferred embodiment, layers are heat
7 sealed, e.g., by a preferred lamination fabrication process.